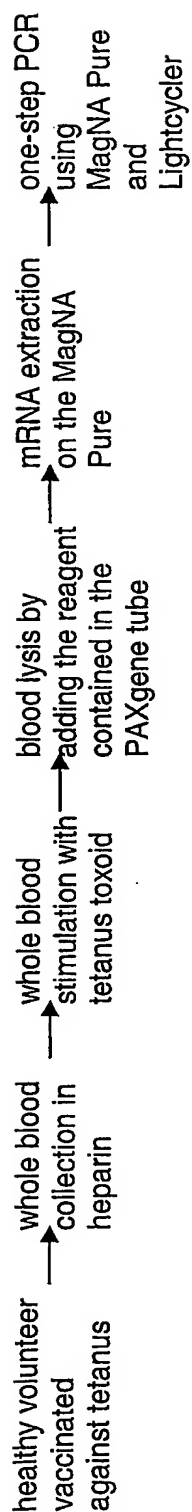


Figures

Figure 1. Strategies followed in the given examples

Figure 1.1 Ex vivo monitoring of immune response against tetanus toxoid.



2/27

10/501666

Figure 1.2 Strategy followed in example 3.

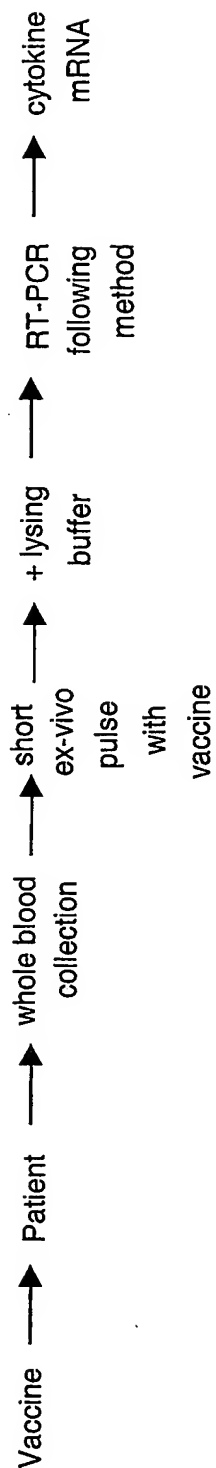


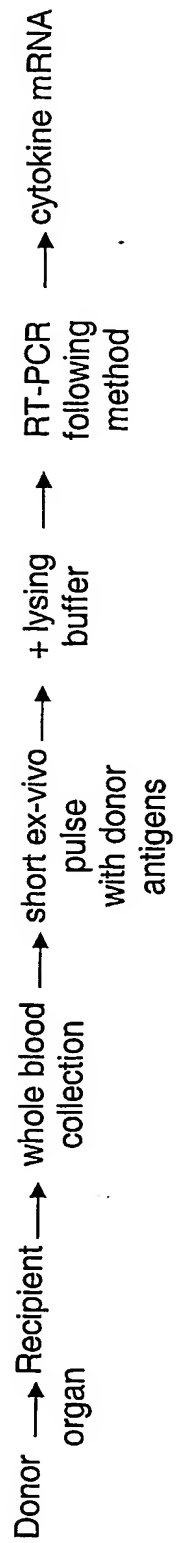
Figure 1.3 Strategy followed in example 4



4/27

10/501666

Figure 1.4 Strategy followed in example 5.



5/27

10/501666

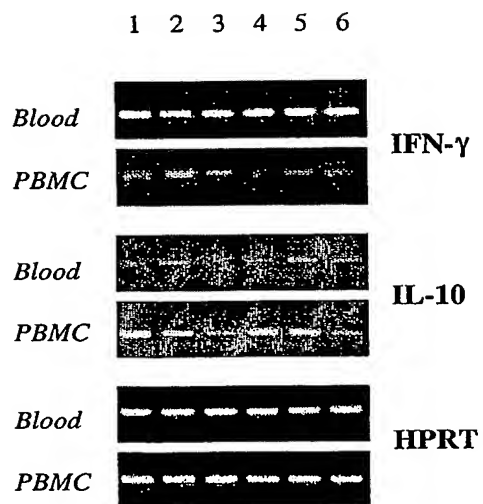


Figure 2.1

6/27

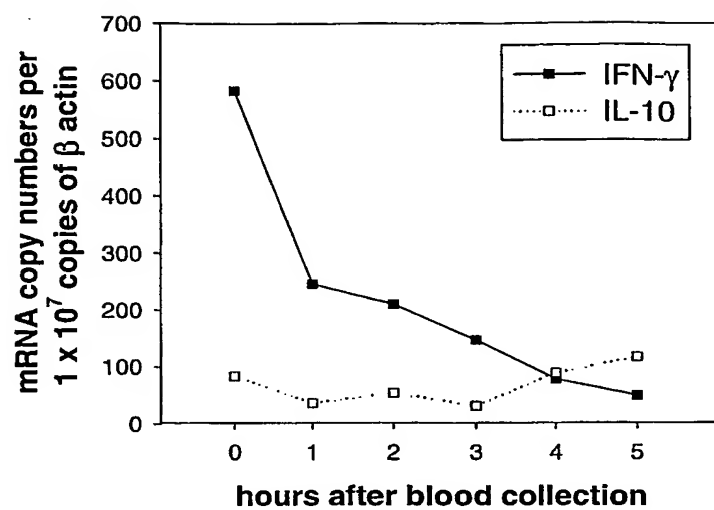
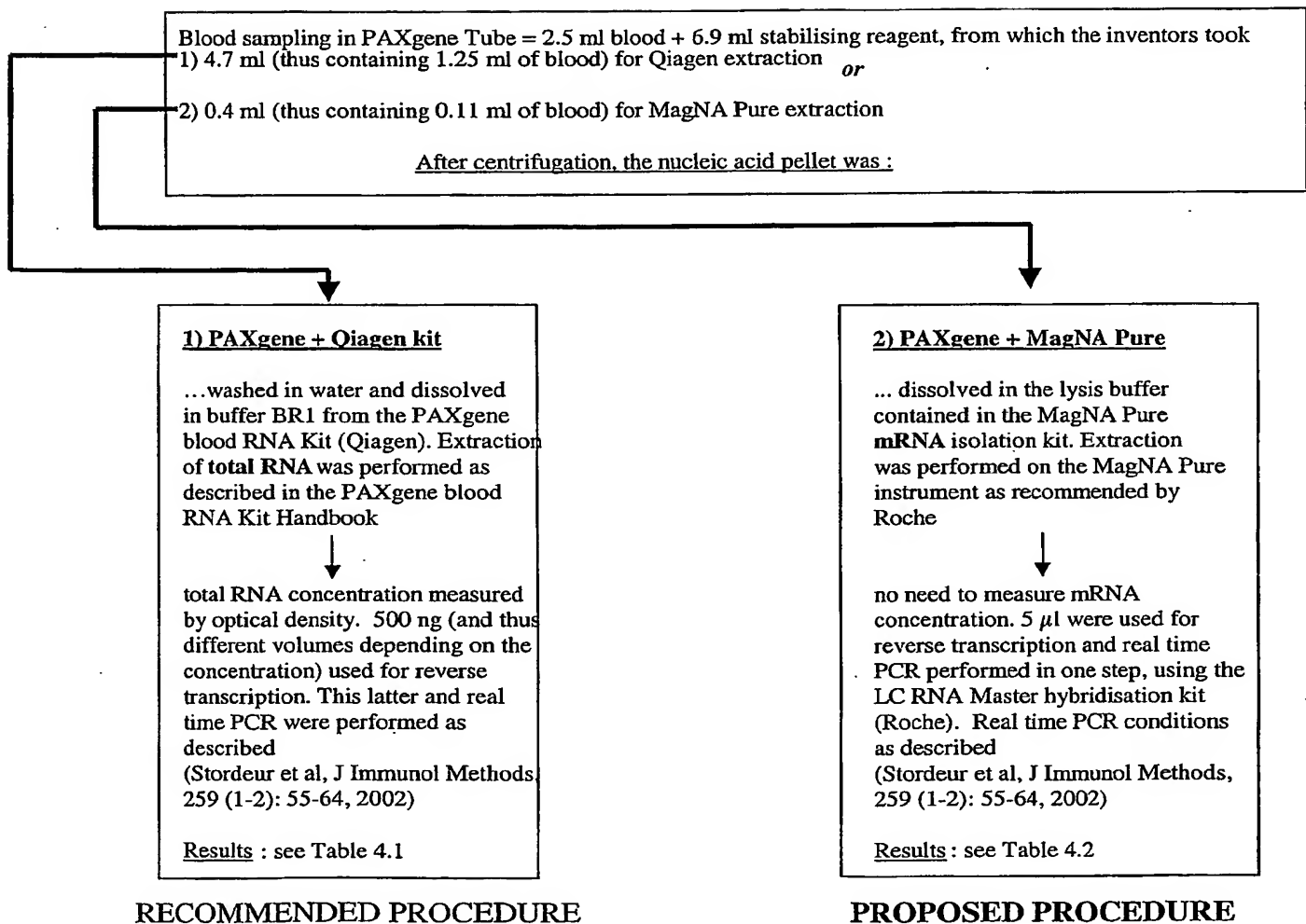


Figure 2.2

10/501666

7/27

Figure 3:

10/501666

8/27

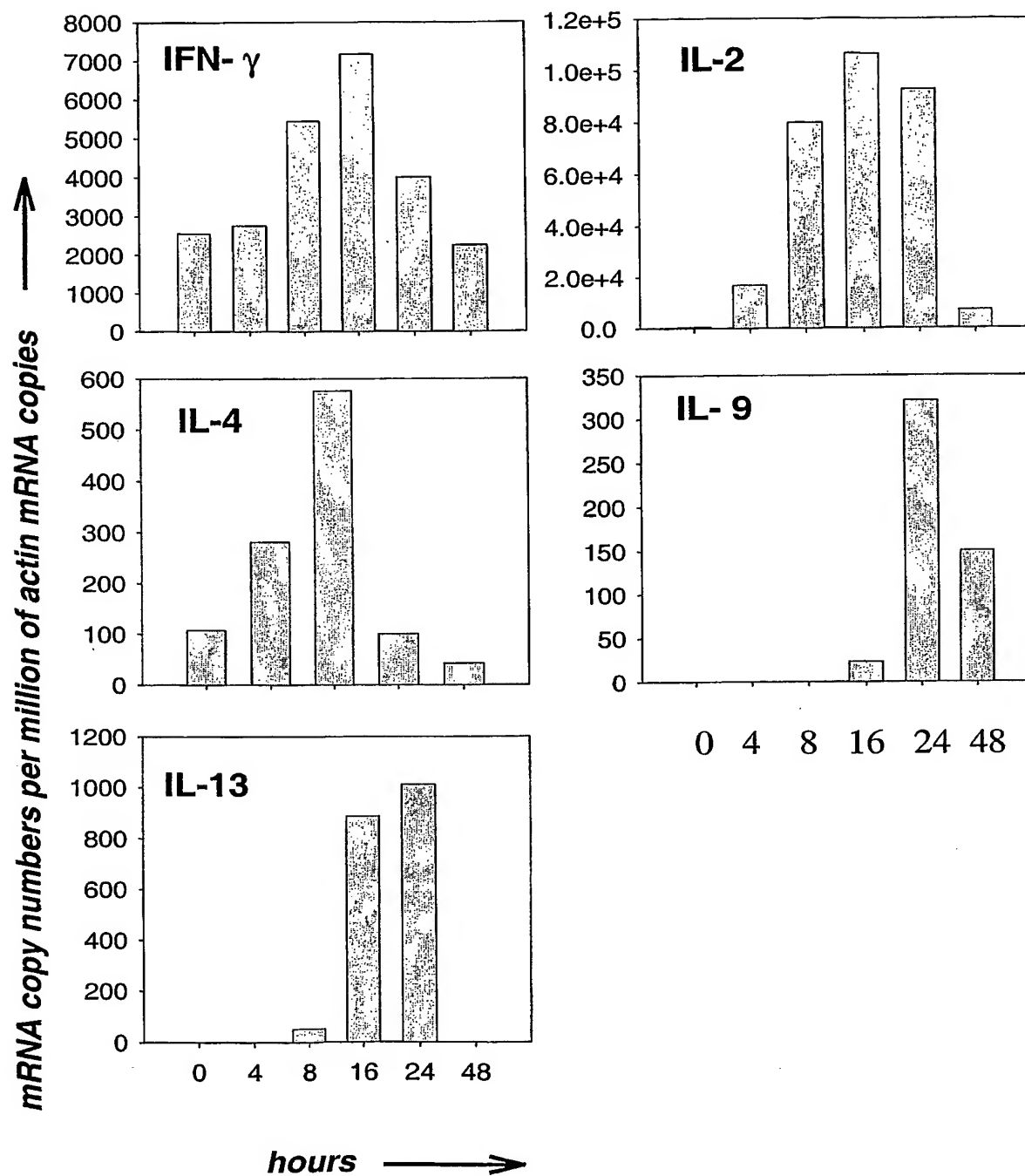


Figure 4

9/27

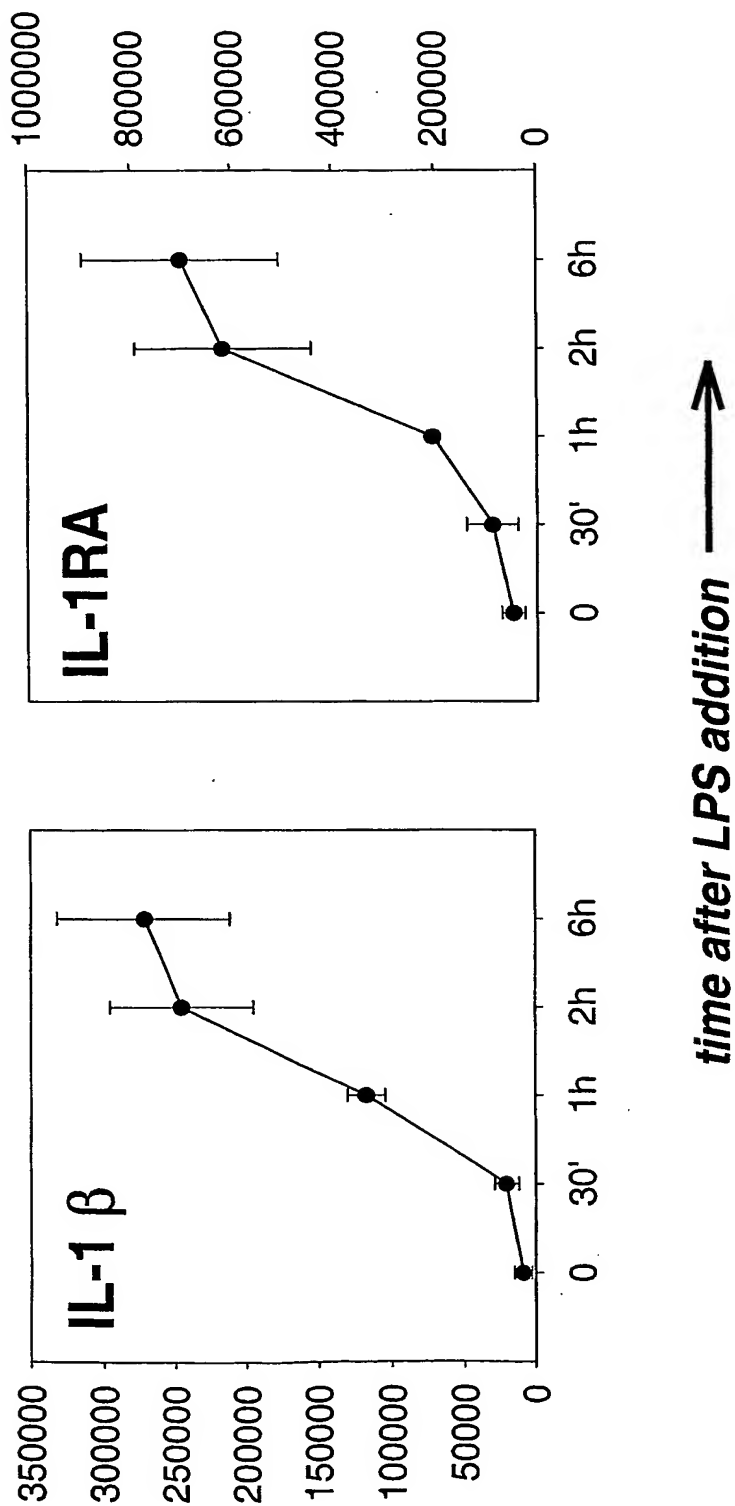


Figure 5

10/27

10/501666

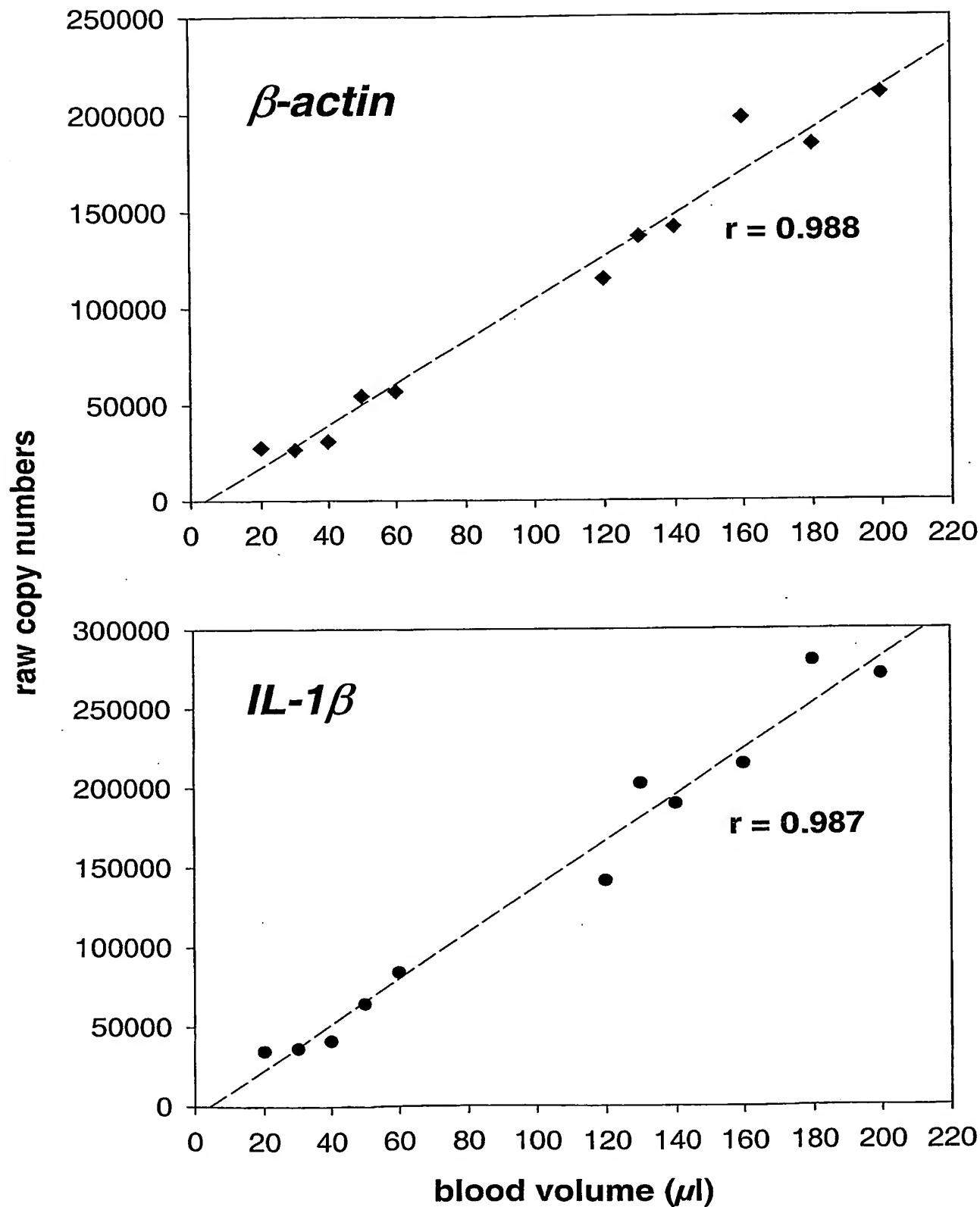
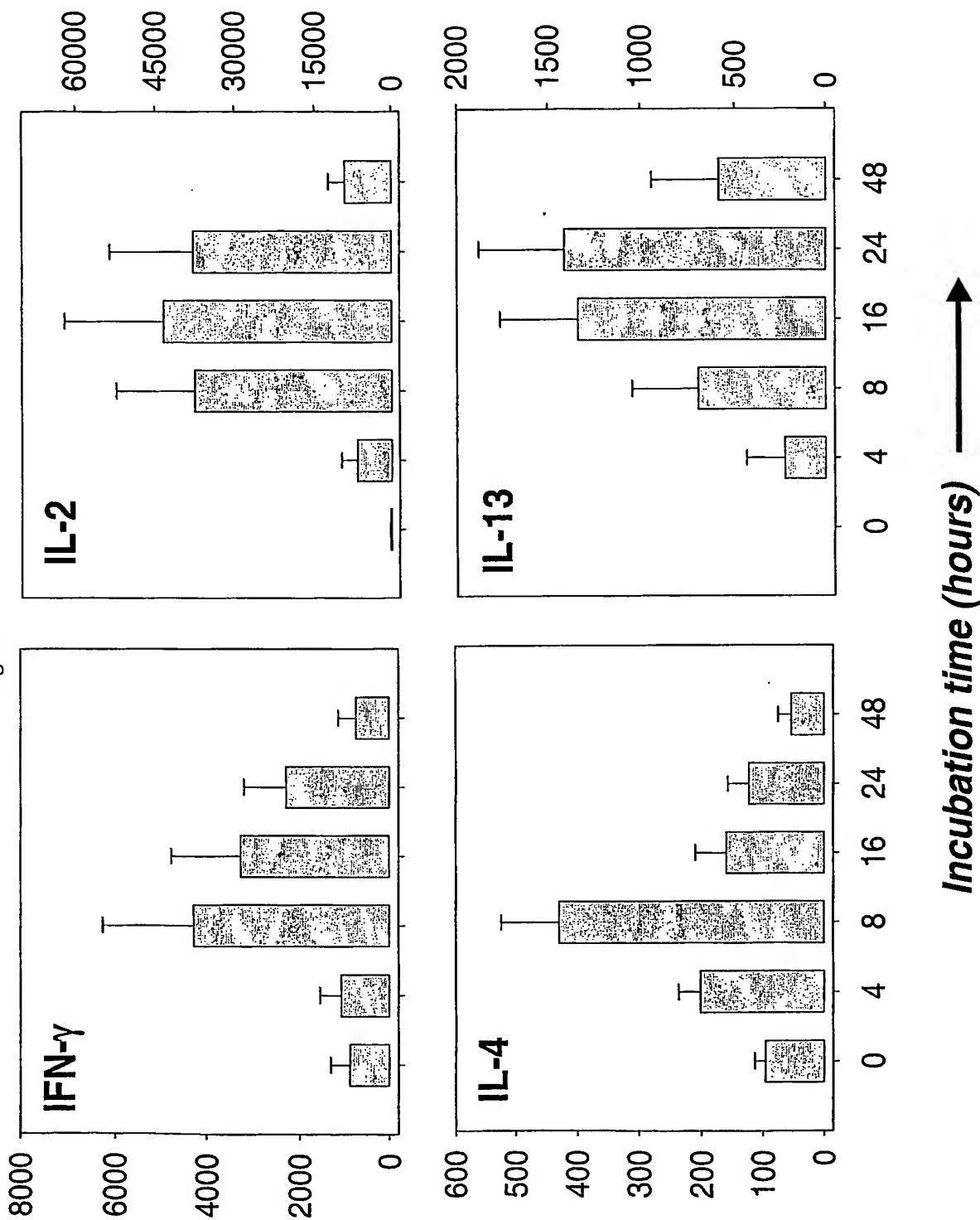


Figure 6

11/27

Figure 7



12/27

Figure 8

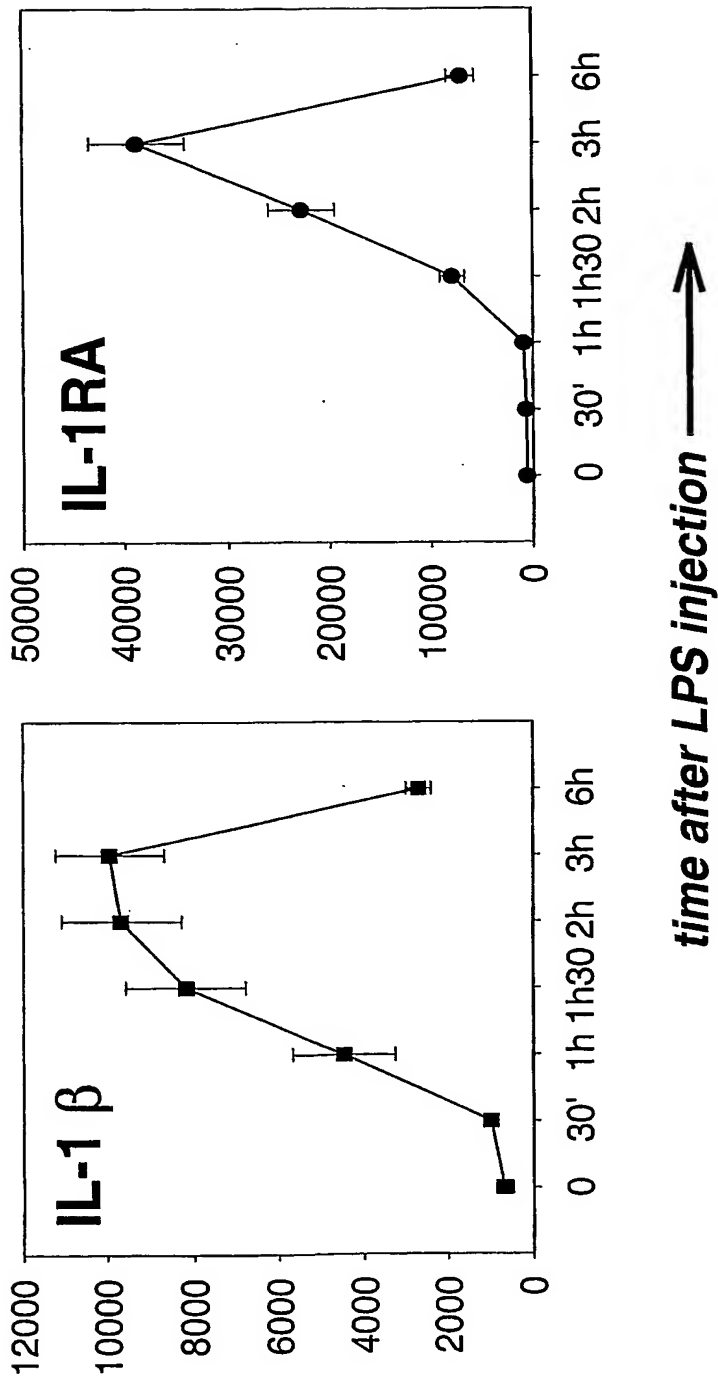
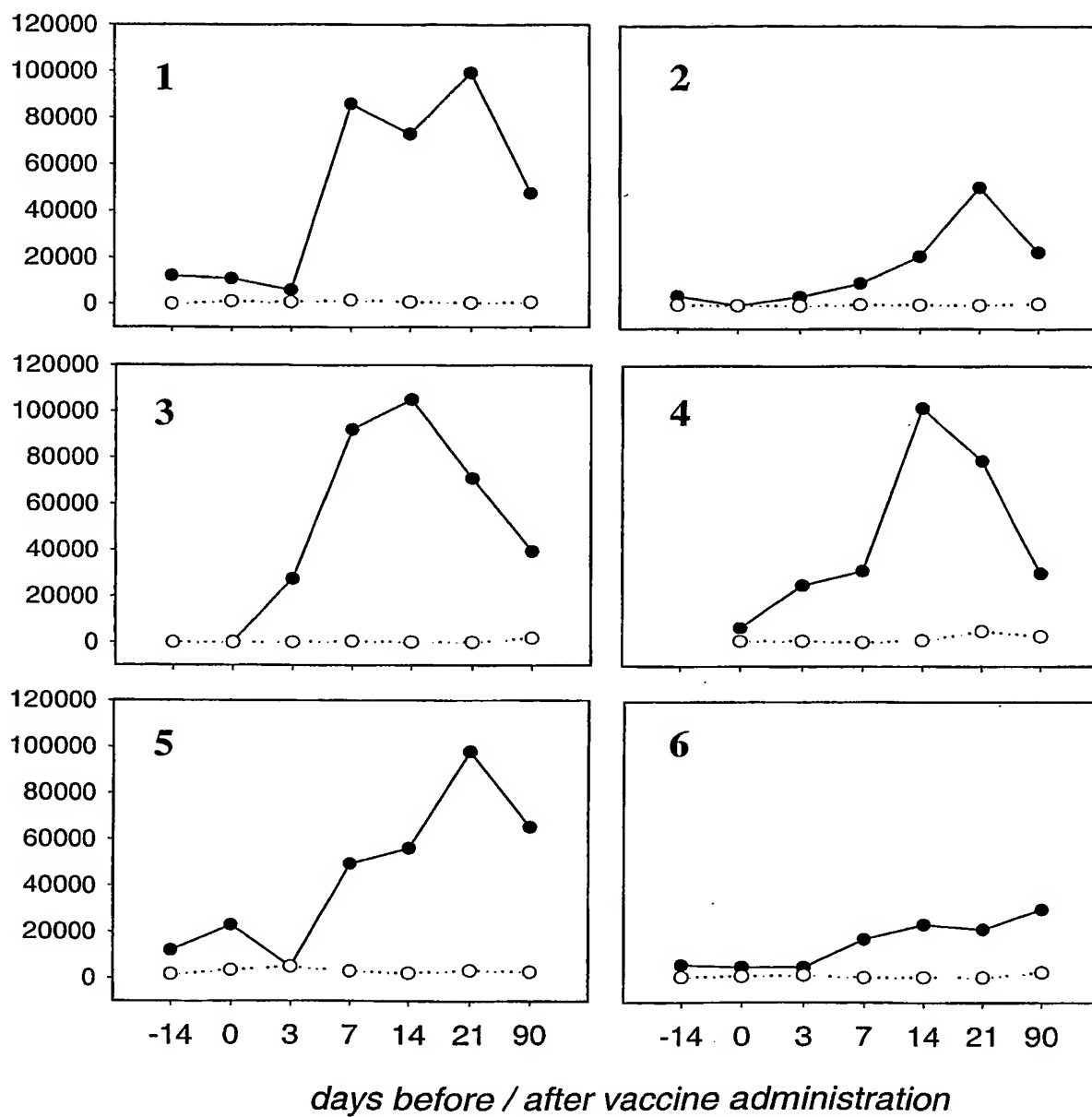


Figure 9



Procedure to analyse blood cytokine mRNA expression

WO 03/060119

PCT/EP03/00493

10/501666

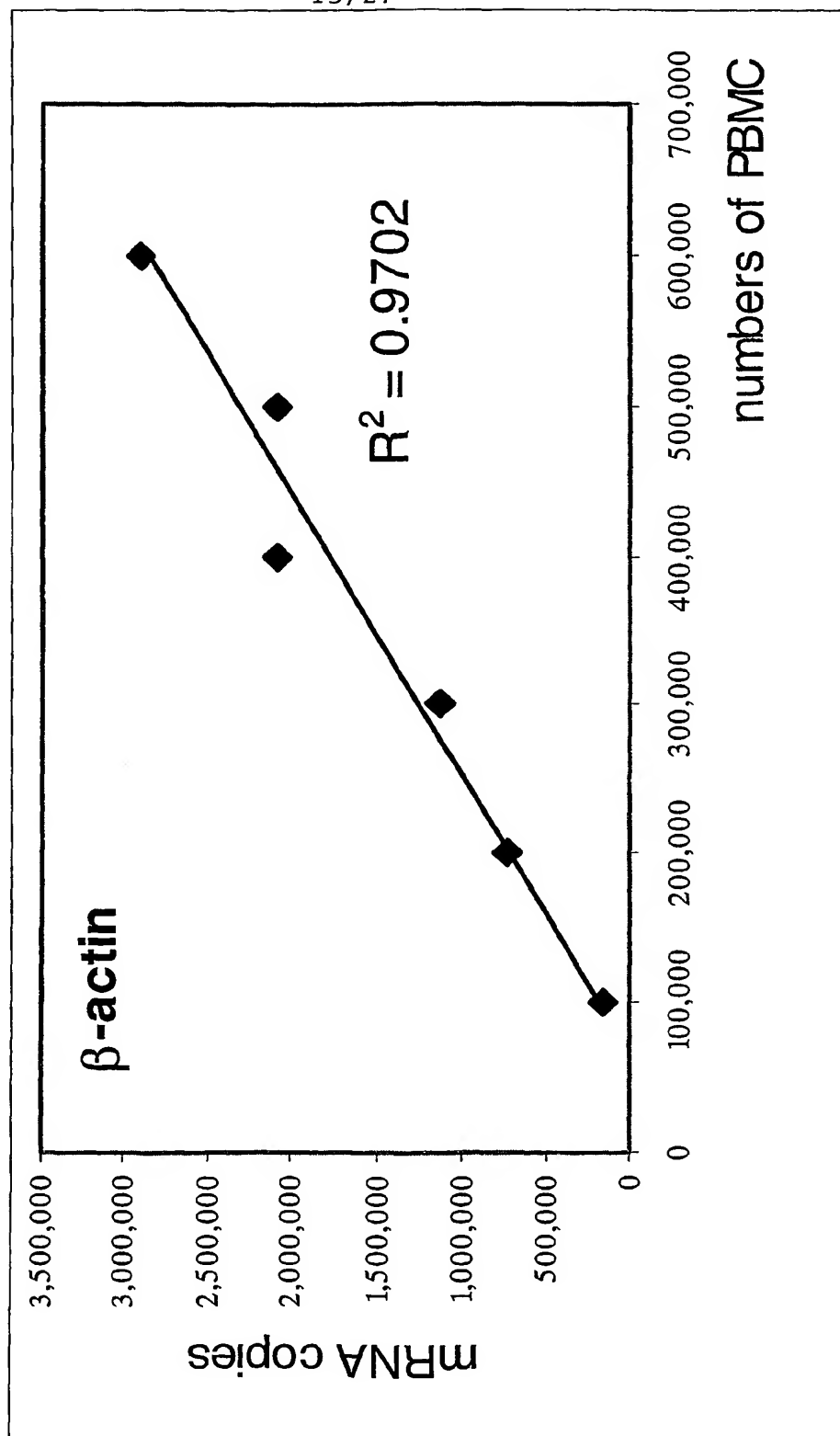
14/27

- **Whole blood** sample incubation in the presence the tested potential immuno-modulator (antigen, allergen, cell, xenobiotic,...)
- Blood cells lysis and **mRNA stabilisation** using the reagent contained in the *PAXgene* tube
- **Automated** mRNA extraction and preparation of the reaction mixture for one-step RT-PCR using an automated device (*Magna Pure instrument – Roche Diagnostics*)
- Quantification of cytokine mRNA levels by **real-time PCR** using the *Lightcycler instrument (Roche Diagnostics)*

Figure 10

Automated mRNA extraction and reagent mix preparation on the MagNA Pure : direct correlation between starting cell number and found copy number

Figure 11



10/501666

16/27

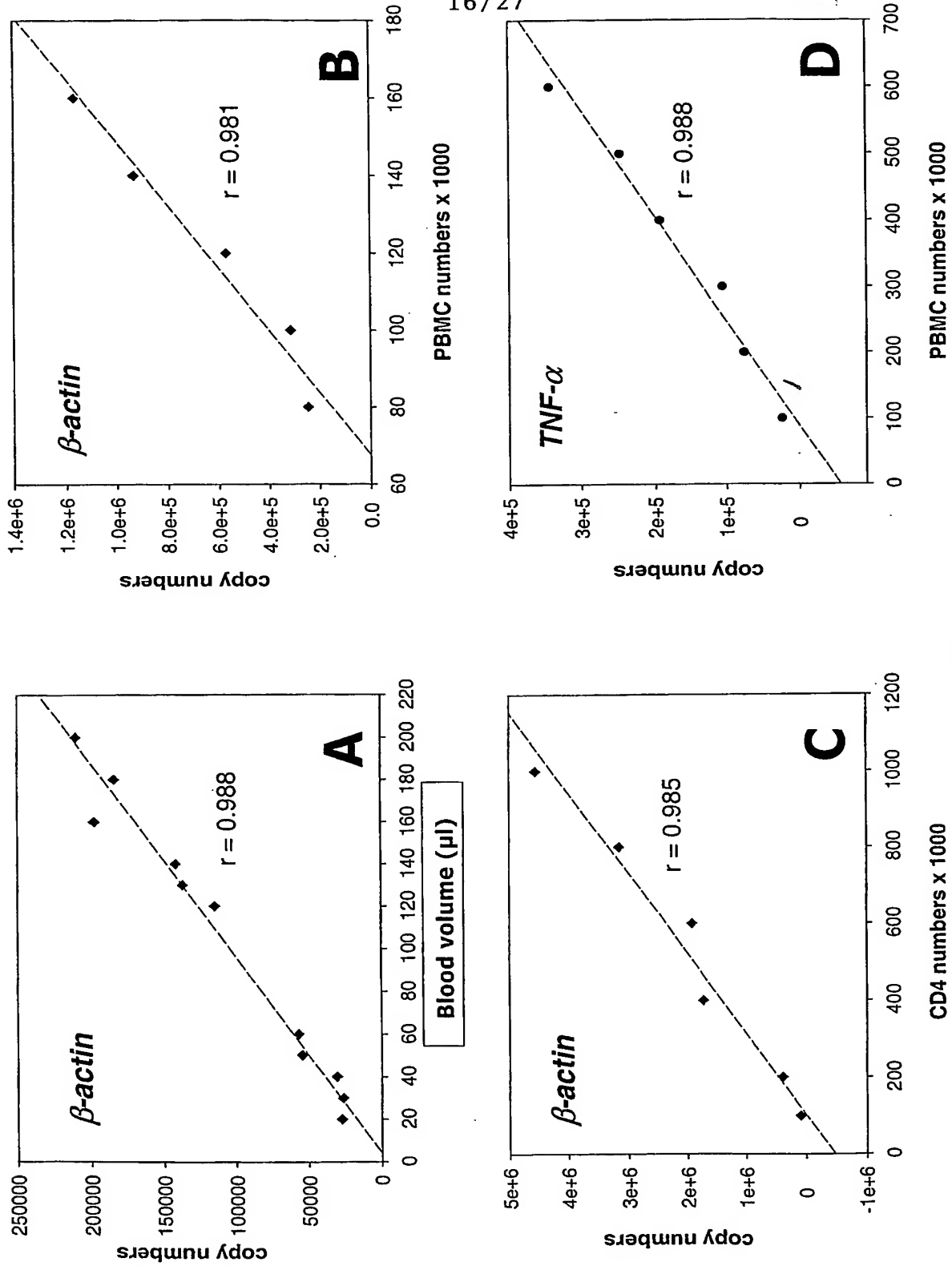


Figure 12

Immune monitoring in cancer immunotherapy

WO 03/060119

PCT/EP03/00493

10/501666

17/27

Patient #3

- 7/99: melanoma of the right scapula. Excision
- 8/01: SC M+ arm, back, abdomen, right testis
- 4/02: right orchidectomy
- 4/02: pre-vaccine check-up
- 5/02: initiation of the vaccine program

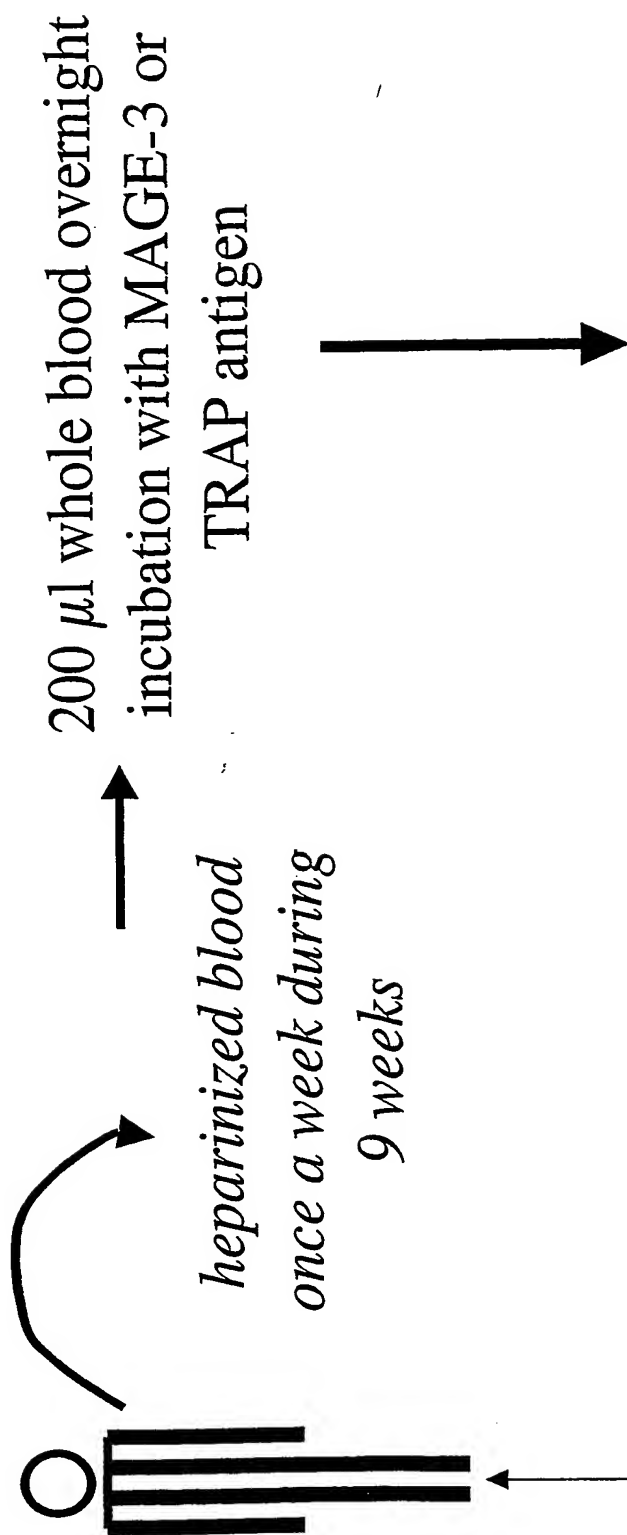
Vaccine: MAGE-3 recombinant protein + adjuvant

Figure 13

In vitro stimulation of whole blood to assess immune response to MAGE-3

WO 03/060119

18/27



Patient #3 received 3 injections
of anti-MAGE-3 vaccine
(MAGE-3 + adjuvant)

Figure 14

PCT/EP03/00493

10/501666

IL-2 mRNA in whole blood following MAGE-3 vaccination in Patient #3

IL-2 mRNA

(copy numbers per million of β -actin mRNA copies)

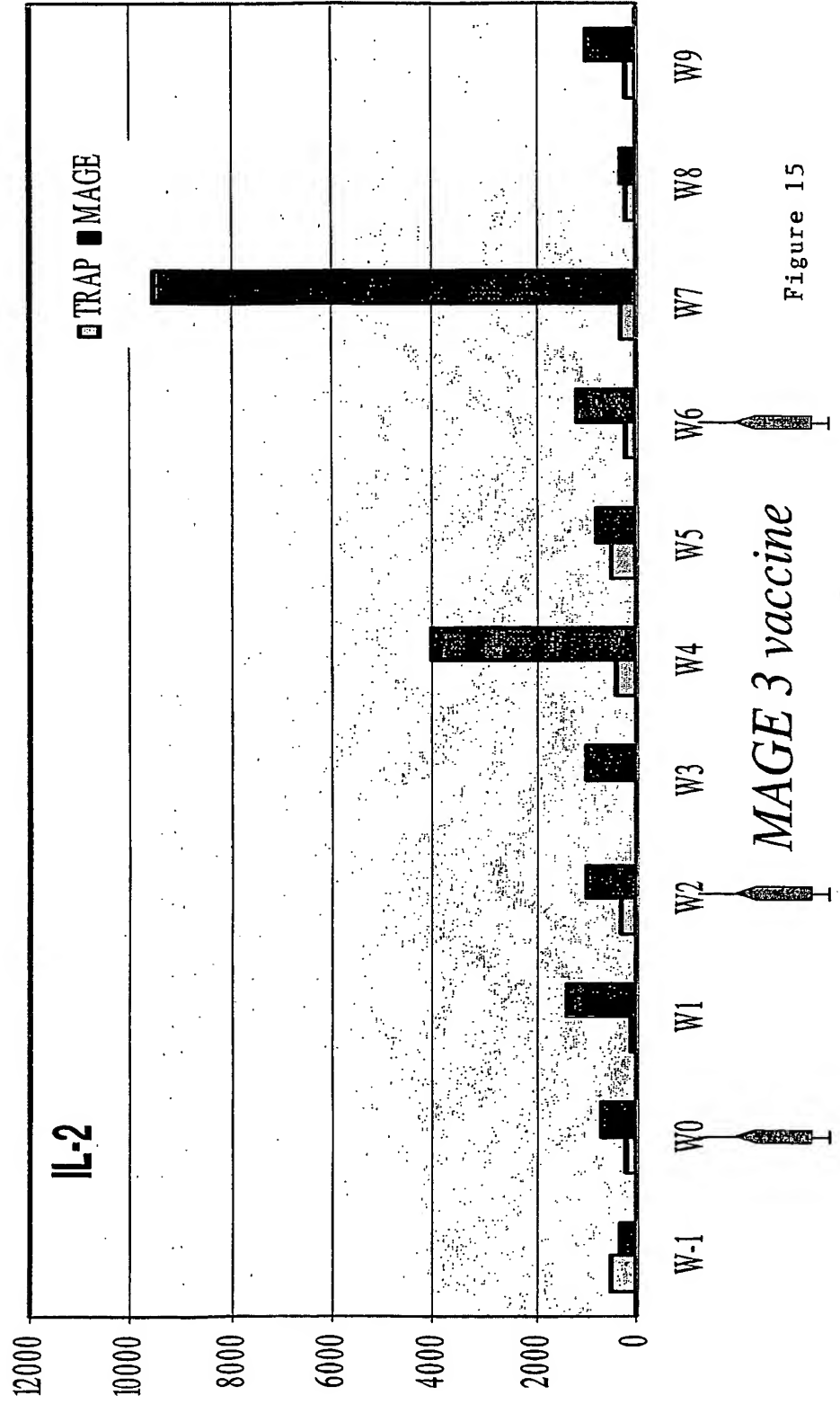
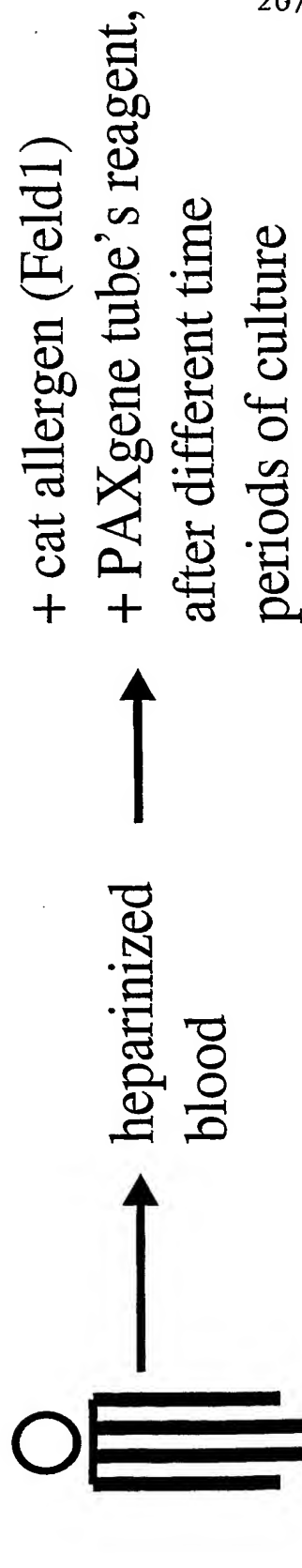


Figure 15

***In vitro* stimulation of whole blood : evaluation of immune response to allergen**

WO 03/060119



20/27

mRNA extraction and RT-PCR
using the MagNA Pure and the
Lightcycler

Figure 16

PCT/EP03/00493

10/501666

In vitro stimulation of whole blood : evaluation of immune response to Feld1

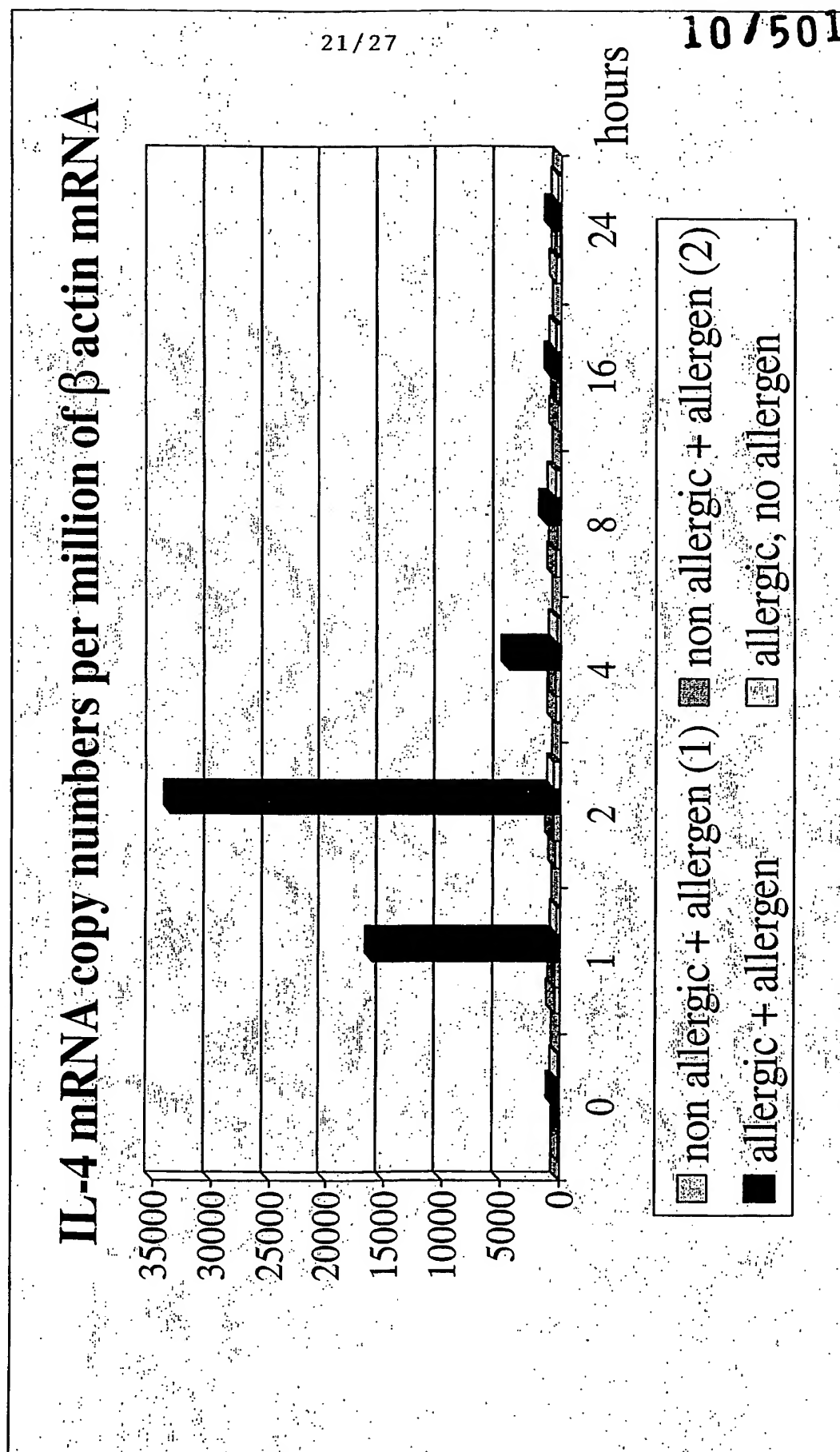
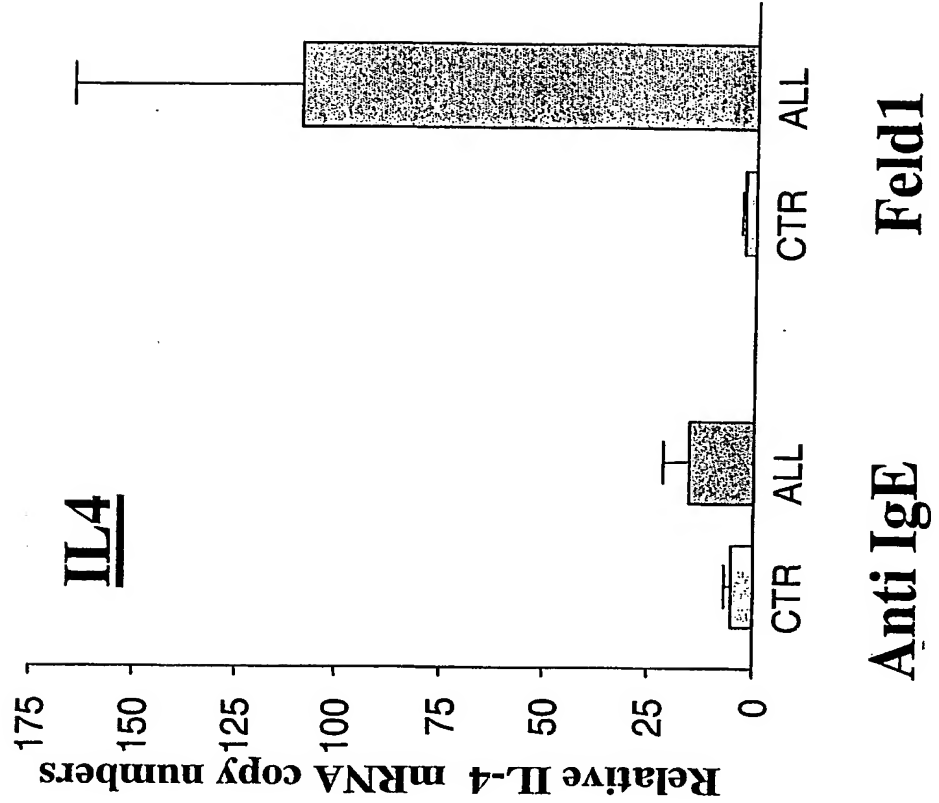


Figure 17

10/501666

IL-4 mRNA levels after whole blood stimulation with Feld1 are higher in allergic patients compared to healthy controls



HEALTHY SUBJECTS
PATIENTS ALLERGIC TO CAT

Figure 19

In vitro stimulation of whole blood : assessment of T cell response to GAD65



Figure 20

In vitro stimulation of whole blood : assessment of T cell response to GAD65

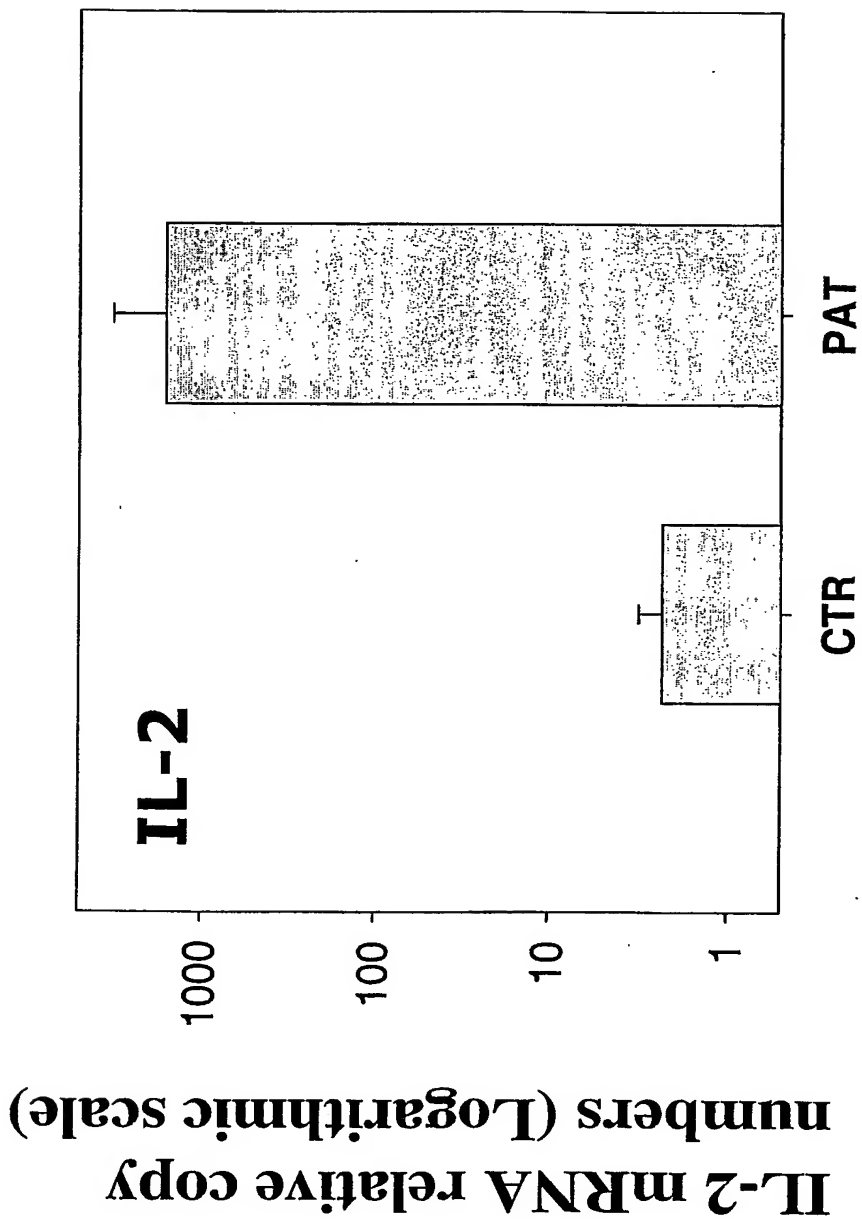


Figure 21

Monitoring of alloreactive immune response : quantification of IL-2 mRNA in a whole blood + dendritic cells system

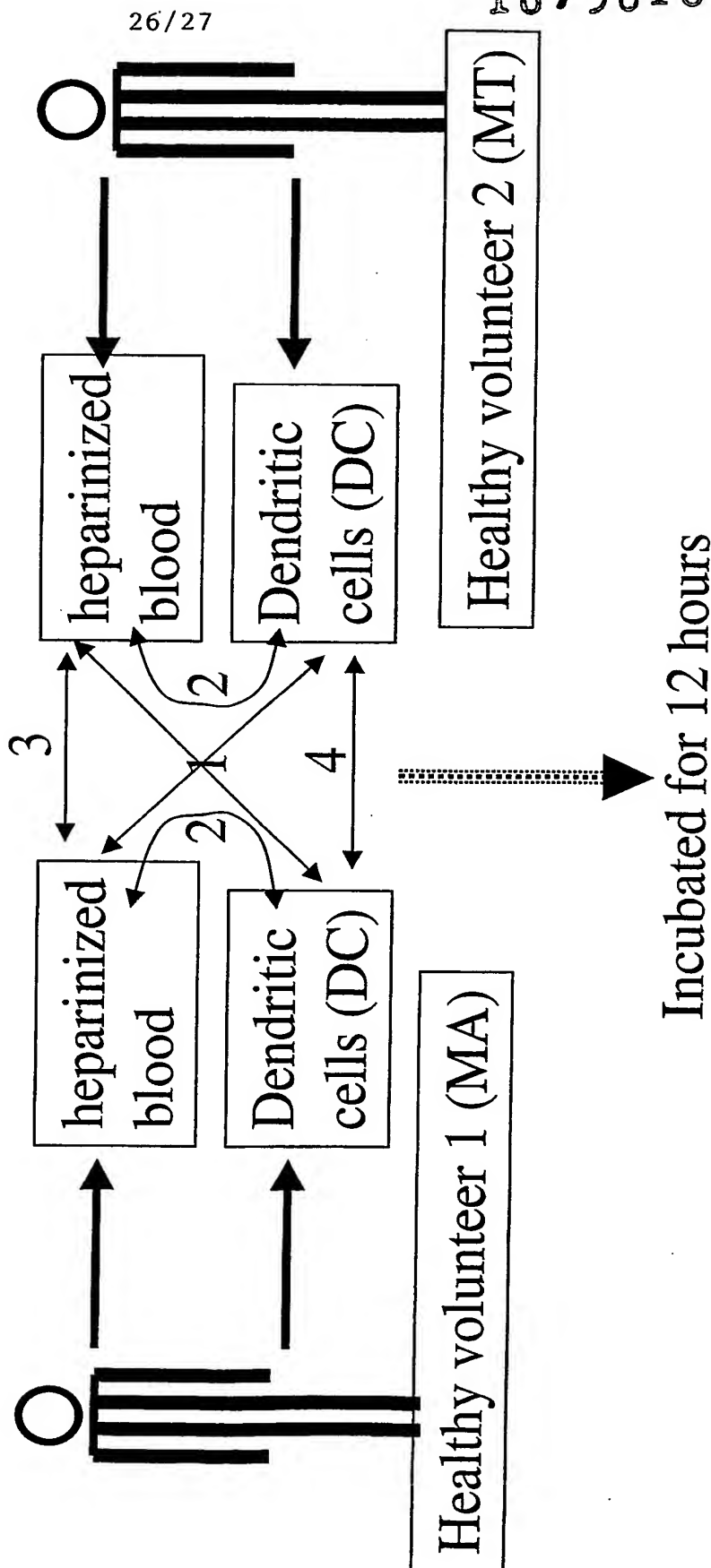
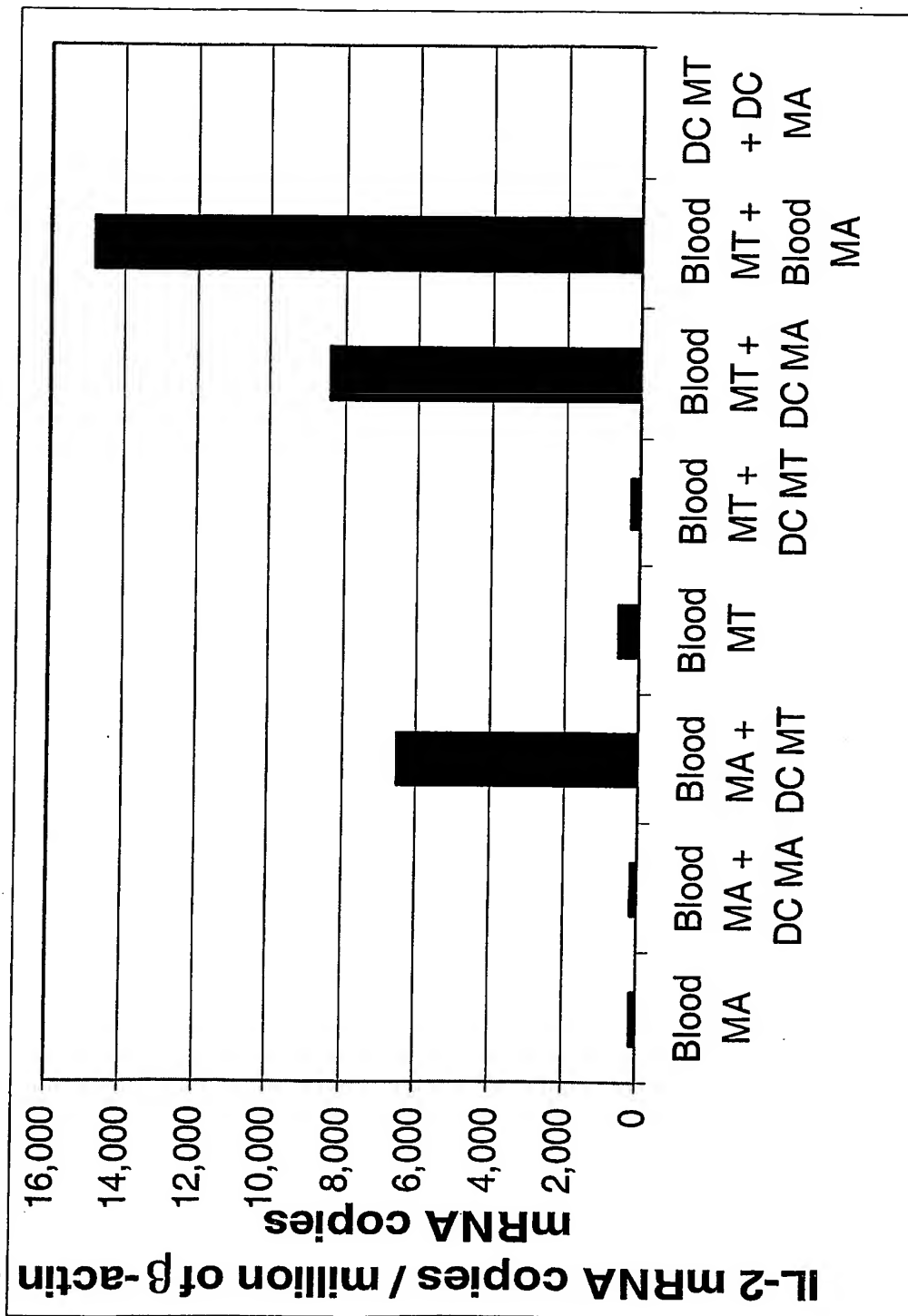


Figure 22

Monitoring of alloreactive immune response : quantification of IL-2 mRNA in a whole blood + dendritic cells system

Figure 23



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